

IN THE CLAIMS

Please cancel the previous versions of claim 1, and rewrite it as follows.

Pursuant to 37 C.F.R. 1.121, the following is a clean copy of the rewritten claim. A marked-up version of claim 1 is attached as a separate sheet.

1. (Twice Amended) A process for producing a polymeric actuator comprising an ion-exchange resin product and metal electrodes which are formed on the surface of the ion-exchange resin product and are insulated from each other, said actuator operating as an actuator by applying a potential difference between the metal electrodes when the ion-exchange resin product is in the water-containing state to allow the ion-exchange resin product to undergo bending or deformation,

wherein the following steps (i) to (iii) are repeatedly conducted to form the metal electrodes ranging from the surface of the ion-exchange resin product to the inside thereof;

(i) a step of allowing the ion-exchange resin product to adsorb a metal complex in an aqueous solution (adsorption step),

(ii) a step of reducing the metal complex adsorbed on the ion-exchange resin product by a reducing agent to deposit a metal on the surface of the ion-exchange resin product (deposition step), and

(iii) a step of washing the ion-exchange resin product having the deposited metal (washing step),

such that the deposition of the metal is conducted not only on the surface of the ion-exchange resin product but also in the interior near the surface.